## CLAIMS

We claim:

A computer-implemented method comprising:
 receiving data defining a document that is to be printed on a printer;
 processing the data to identify one or more characteristics of the data;
 and

based on the one or more characteristics, automatically selecting an N-Up printing mode in which to print the document.

- The computer-implemented method of claim 1, wherein the act of processing the data comprises processing data associated with text.
- The computer-implemented method of claim 1, wherein the act of processing the data comprises processing data associated with graphics.
- 4. The computer-implemented method of claim 1, wherein the act of processing the data comprises processing data associated with both text and graphics.
- 5. The computer-implemented method of claim 1, wherein the act of selecting comprises performing a mapping operation, based on the one or more characteristics, effective to map the one or more characteristics to an N-Up mode.

- 6. The computer-implemented method of claim 5, wherein the act of performing comprises consulting a look up table containing a plurality of characteristic values and N-Up mode values each of which being associated with one or more characteristic values.
- 7. The computer-implemented method of claim 1 further comprising changing one or more characteristics with which an N-Up printing mode is associated effective such that future documents that embody the changed characteristics will be printed in the associated N-Up mode.
- **8.** The computer-implemented method of claim 7, wherein the act of changing is performed responsive to user input.
- 9. One or more computer-readable media having computer-readable instructions thereon which, when executed by one or more processors, cause the one or more processors to:

receive data defining a document that is to be printed on a printer;

process the data to identify one or more characteristics of the data; and
based on the one or more characteristics, automatically select an N-Up
printing mode in which to print the document.

10. The one or more computer-readable media of claim 9, wherein the instructions cause the one or more processors to process data associated with text.

- 11. The one or more computer-readable media of claim 9, wherein the instructions cause the one or more processors to process data associated with graphics.
- 12. The one or more computer-readable media of claim 9, wherein the instructions cause the one or more processors to process data associated with both text and graphics.
- 13. The one or more computer-readable media of claim 9, wherein the instructions cause the one or more processors to select an N-Up printing mode by performing a mapping operation, based on the one or more characteristics, effective to map the one or more characteristics to an N-Up mode.
- 14. The one or more computer-readable media of claim 13, wherein the instructions cause the one or more processors to perform the mapping operation by consulting a look up table containing a plurality of characteristic values and N-Up mode values each of which being associated with one or more characteristic values.
- 15. The one or more computer-readable media of claim 9, wherein the instructions further cause the one or more processors to change one or more characteristics with which an N-Up printing mode is associated effective such that future documents that embody the changed characteristics will be printed in the associated N-Up mode.

- 16. The one or more computer-readable media of claim 15, wherein the instructions cause the one or more processors to change one or more characteristics responsive to user input.
  - 17. A computer-implemented method comprising:

receiving data defining a document that is to be printed on a printer;

processing the data to identify one or more characteristics of the data, at least one of the characteristics pertaining to a font that is to appear on a printed document; and

based on the one or more characteristics, selecting an N-Up printing mode in which to print the document.

- 18. The computer-implemented method of claim 17, wherein said at least one characteristic pertaining to the font pertains to a font size.
- 19. The computer-implemented method of claim 17, wherein said at least one characteristic pertaining to the font pertains to a smallest font size that would appear on the printed document.
- 20. The computer-implemented method of claim 17, wherein said at least one characteristic pertaining to the font pertains to a font type.
- 21. The computer-implemented method of claim 17, wherein said at least one characteristic pertaining to the font pertains to a font complexity.

- 22. The computer-implemented method of claim 17, wherein said at least one characteristic pertaining to the font pertains to at least one graphicsbased font
- 23. The computer-implemented method of claim 17, wherein said act of processing the data comprises processing data associated with graphics.
- 24. The computer-implemented method of claim 17, wherein said act of receiving data comprises receiving page description language (PDL) data.
- 25. The computer-implemented method of claim 17, wherein said act of receiving data comprises receiving bit map data.
- 26. One or more computer-readable media having computer-readable instructions thereon which, when executed by one or more processors, cause the one or more processors to:

receive data defining a document that is to be printed on a printer;

process the data to identify one or more characteristics of the data, at least one of the characteristics pertaining to a font that is to appear on a printed document; and

based on the one or more characteristics, select an N-Up printing mode in which to print the document.

27. The one or more computer-readable media of claim 26, wherein the instructions cause the one or more processors to process the data to identify at least one characteristic pertaining to a font size.

- 28. The one or more computer-readable media of claim 26, wherein the instructions cause the one or more processors to process the data to identify at least one characteristic pertaining to a smallest font size that would appear on the printed document.
- 29. The one or more computer-readable media of claim 26, wherein the instructions cause the one or more processors to process the data to identify at least one characteristic pertaining to a font type.
- 30. The one or more computer-readable media of claim 26, wherein the instructions cause the one or more processors to process the data to identify at least one characteristic pertaining to a font complexity.
- 31. The one or more computer-readable media of claim 26, wherein the instructions cause the one or more processors to process the data to identify at least one characteristic pertaining to at least one graphics-based font.
- 32. The one or more computer-readable media of claim 26, wherein the instructions cause the one or more processors to process the data associated with graphics.
- 33. The one or more computer-readable media of claim 26, wherein the instructions cause the one or more processors to receive and process page description language (PDL) data.

- 34. The one or more computer-readable media of claim 26, wherein the instructions cause the one or more processors to receive and process bit map data.
  - 35. An apparatus comprising:

memory;

one or more processors;

computer-readable instructions in the memory which, when executed by the one or more processors, cause the processors to:

receive data defining a document that is to be printed on a printer; process the data to identify one or more characteristics of the data;

based on the one or more characteristics, select an N-Up printing mode in which to print the document.

- 36. The apparatus of claim 35, wherein the data that is processed is associated with text.
- 37. The apparatus of claim 35, wherein the data that is processed is associated with graphics.
- 38. The apparatus of claim 35, wherein the data that is processed is associated with both text and graphics.

- 39. The apparatus of claim 35, wherein the N-Up printing mode is selected by performing a mapping operation, based on the one or more characteristics, effect to map the one or more characteristics to an N-Up mode.
  - 40. The apparatus of claim 35 embodied as a printer.
- The apparatus of claim 35 embodied as a client computing device.
  - 42. The apparatus of claim 35 embodied as a server.
  - 43. A software architecture comprising:
  - an N-Up analysis module configured to:

receive data defining a document that is to be printed on a printer;

process the data to identify one or more characteristics of the data; and

based on the one or more characteristics, select an N-Up printing mode in which to print the document, the module comprising:

- a text analyzer configured to process data associated with text, and
- a graphics analyzer configured to process data associated with graphics.
- 44. The software architecture of claim 43 further comprising a look up table containing a plurality of characteristic values and N-Up mode values each of which being associated with one or more characteristic values.

- **45.** The software architecture of claim 44, wherein the module is configured to select an N-Up mode by mapping one or more characteristic values to an associated N-Up mode value.
- 46. The software architecture of claim 43, wherein the N-Up analysis module is embodied as a print driver.
- 47. The software architecture of claim 43, wherein the N-Up analysis module is embodied in a printer.
- 48. The software architecture of claim 43, wherein the N-Up analysis module is embodied in a client computer.
- 49. The software architecture of claim 43, wherein the N-Up analysis module is embodied in a server.